INSTRUCTIONS

HOW TO OPERATE THE PLUMBER'S ALL-PURPOSE FLUSHING GUN

CLEANS CLOGGED DRAINS BY WATER IMPACT!

Quickly removes all obstructions — Grease, Scale, Rags, Sand; eliminates foul odors and breeding ground for bacteria.

MILLER SEWER ROD COMPANY

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CHICAGO 30, ILLINOIS

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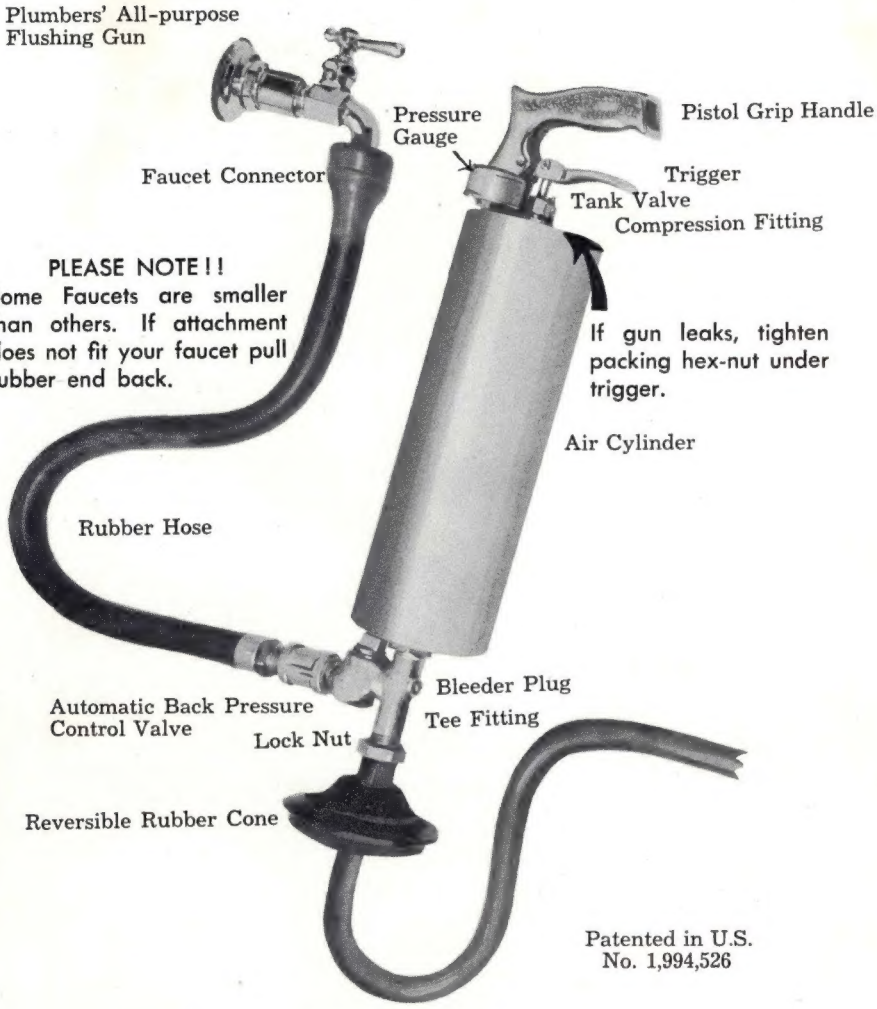


If gun leaks, tighten packing hex-nut under trigger.

PLEASE NOTE!!
Some Faucets are smaller than others. If attachment does not fit your faucet pull rubber end back.

ANNOUNCING . . .

The New, Efficient Plumbers' All-Purpose Flushing Gun!

It had to come! . . . . because it is SCIENTIFICALLY SOUND!! And here it is—the new, efficient PLUMBERS' ALL-PURPOSE FLUSHING GUN!

Now you can say "good-by" to old-fashioned methods of opening clogged lines . . . and a **big** and **permanent** "GOOD-BY!" to rods, "snakes" and chemicals, which, all too often, have proved costly and ineffective. Best of all, you need worry no longer about clogged lines, which are inaccessible to rods and snakes, for this NEW and DIFFERENT GUN CLEANS **ALL** LINES IN A JIFFY!—using the water as a flexible shaft to make the sharp turns in the lines.

Operating on an **entirely different principle,** this remarkable new FLUSHING GUN does a thorough job of removing obstructions by WATER IMPACT; does it **quickly** and without the bother and uncertainty of other methods. It saves **time**—it saves **labor**—and in place of a rodded drain (which is often merely **partially** opened) it gives you a CLEAN and SANITARY drain.

HOW IT WORKS——

A SCIENTIFIC PRINCIPLE

The PLUMBERS' ALL-PURPOSE FLUSHING GUN employs a **scientific principle** of Physics. It starts with the well-known fact that WATER IS INCOMPRESSIBLE. One cannot confine 62½ lbs. of water in less than one cubic foot of space. When the sewer or drain line is completely filled with water through the "tee" fitting and AUTOMATIC BACK-PRESSURE CONTROL VALVE, this water acts as an incompressible flexible shaft. A sudden release of the trigger delivers a "hammer blow" or **water impact** to the working point of this flexible shaft, which is **immediately** registered against the obstruction, thus dislodging **instantly** the stoppage in the line. This result is obtained by IMPACT—NOT PRESSURE. (For example, in driving a nail through a plank, the sudden

blow of a 1½ lb. hammer on a nailhead is immediately registered at the nail point and the plank is pierced by IMPACT! The same result could NOT be obtained by the PRESSURE of a 200 lb. weight resting on the nail).

QUICK—THOROUGH and SANITARY!!! Grease, sediment and scum adhere to the inside walls of drain pipes and in time this causes the drain line to become smaller. Naturally, it also means slower drainage. Here, again, the PLUMBERS' ALL-PURPOSE FLUSHING GUN proves its **outstanding merit.** The momentum created in the line by the WATER IMPACT **swiftly removes this scum and sediment** from the inside wall of the pipe; thereby **minimizing foul odors and clearing the line for thorough** drainage.

We invite you to study most carefully every feature of this amazing appliance, as described in this booklet. We urge you to PUT IT TO EVERY TEST. For such a test will prove CONCLUSIVELY that in the PLUMBERS' ALL-PURPOSE FLUSHING GUN, you have found the answer to the problem of opening clogged lines and of doing the job quickly, scientifically and EFFECTIVELY!

Last, but not least, consider the HEALTH angle. It is no secret that most drains and sewers, because of their insanitary drain conditions, are breeding grounds for disease-producing bacteria. Periodic application of the PLUMBERS' ALL-PURPOSE FLUSHING GUN will greatly minimize the breeding of these bacteria.

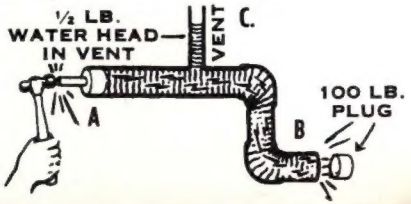
From every viewpoint—Speed, Efficiency, Sanitation and Economy—you will find this remarkable FLUSHING GUN a tremendously valuable asset . . . a tool worth many times its cost.

* Water is practically nonelastic. A pressure of 30,000 lbs. to the square inch will show a contraction of less than one-twelfth.

A Question Often Asked—

Does the Plumber's All Purpose Flushing Gun lose its effectiveness in vents and stacks?

No, if the pressure were gradual, it would be dissipated, but the FLUSH GUN is so fast that it by-passes open stacks and vents.



IMPORTANT!

Read These Notes Carefully

When using the PLUMBERS' ALL-PURPOSE FLUSHING GUN, **ALWAYS** maintain a FLEXIBLE SHAFT of water from the cone, or working point, to the point of obstruction, by allowing water from nearby faucets to completely fill the drain lines through the "tee" connection of the gun. Always plug drain openings and overflows tightly. Cover to prevent splash. Fill the cylinder with air to the recommended "shot". Tighten compression nut fitting when necessary. In using the gun, be sure to press down firmly—**ALWAYS SNAP TRIGGER.**

When **all** the fixtures on a waste pipe line or sewer are blocked, **ALWAYS START AT THE CLEANOUT PLUG OR FIXTURES NEAREST TO THE OUTFLOW TO THE MAIN SEWER.** In that way, we are sure that the drain ahead is open and will take the obstruction as we "shoot" and flush. We are not shooting one obstruction against another in case of more than one blockage in the line. In severe stoppage, insert the hose as close to the point of obstruction as possible. After opening a clogged line, be sure to allow the water to run a reasonable length of time. This will help to flush out the entire drain.

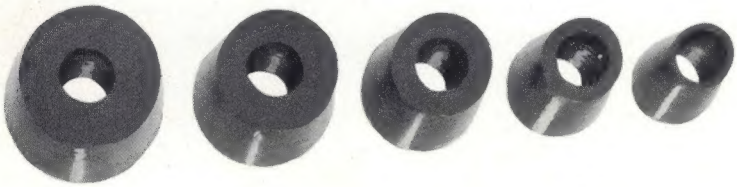
EXTREME CAUTION must be taken where caustics or acids have previously been used in trying to open a line. Be sure that all drains and overflows have been completely sealed to prevent back-splash.

The sharp turns in a sewer or drain line, which would be inaccessible to rods or snakes, are no obstacle to the PLUMBERS' ALL-PURPOSE GUN. By crowding the line with water through the "tee" fitting and delivering a sudden blow, or WATER IMPACT, the effect of the "shot" is immediately manifested at the point of obstruction. **ALWAYS KEEP IN MIND THE FACT THAT WE ARE DELIVERING A SUDDEN BLOW TO AN INCOMPRESSIBLE FLEXIBLE SHAFT OF WATER!**

USEFUL ACCESSORIES FOR THE "WATER IMPACT"

One piece of plywood, approximately 18" by 18" with a hole in the center, large enough to insert cone and gun, will be found very satisfactory in preventing back-splash when opening a clogged toilet bowl. By placing this plywood over the bowl, inserting the "gun" and standing on the outer rim, there is no danger of splash, and a more effective "shot" can be delivered. Several other pieces of plywood may be used for covering nearby sinks and drain openings (a weight should be placed on these). One 15 foot length of pliable rubber hose that may be used for obstructions some distance from the working point. Expansion plugs from ¾" to 4". These may be used to seal up nearby drains, and back-to-back fixtures. Wet cloths may also be used to seal the overflows. **ALWAYS PACK FIRMLY AND COVER.**

Any partially or totally blocked line or drain conveying gasoline, oil or liquid chemicals, can easily be opened with the FLUSHING GUN.



Expansion plugs ¾" to 4" can be used to seal various size pipes—prices below.

PRICES ON EXTRA ACCESSORIES

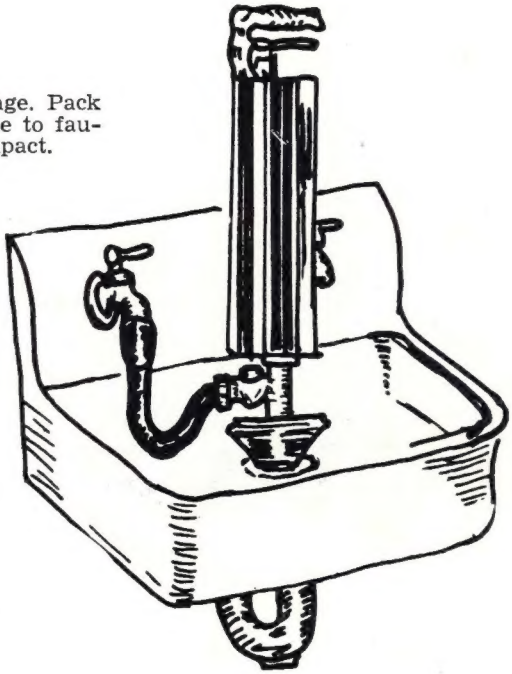
One 6-foot hose to Faucet connection	$ 7.95
One 10-foot hose to Faucet connection	10.95
One 15-foot hose to Faucet connection	14.00
One set of five Expansion Plugs	5.50
One Plywood Splash Board	3.25

Terms: Net. Check with order. Net 30 days to firms rated in Dunn & Bradstreet.

Note: The expansion plugs consist of five sizes from 3/4" to 2 1/2". Use reversible cone furnished with Flush Gun for larger openings.

KITCHEN SINK DRAINS

Partial stoppage. Pack overflow. Hose to faucet. 60 lb. impact.



1. Remove screen if possible—pack overflow tightly.
2. Use 60 lb. impact.
3. Attach hose to faucet connection.

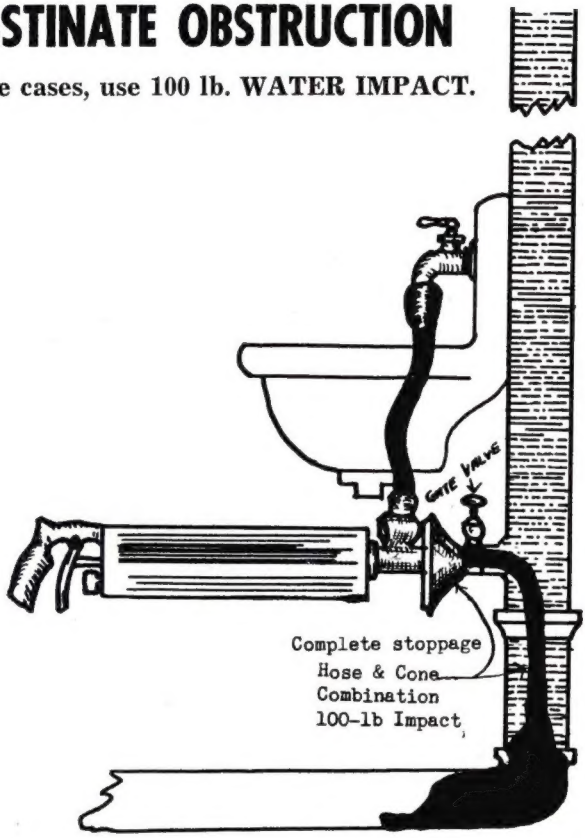
*4. If screen can be removed, use pointed end of cone downward. Press firmly to seal.

5. Open faucet. MAKE SURE DRAIN IS **COMPLETELY** FILLED WITH WATER.
6. Discharge quickly—allow to flush.
   In severe obstruction see Page 9.

* If screen cannot be removed use flat end of cone for best seal.

USING A DEAD LOAD OF WATER IN OBSTINATE OBSTRUCTION

In extreme cases, use 100 lb. WATER IMPACT.



Remove trap and attach hose to faucet, using hose extension as illustrated.

Allow stack to fill. Plug nearby fixtures.

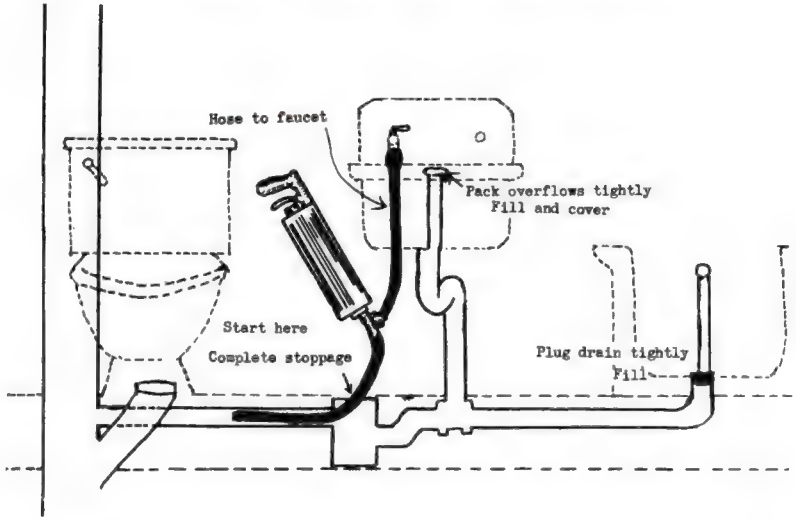
The sudden drop of this DEAD LOAD will help to move the obstruction and flush out the line.

A ½" gate valve may be used between the stack and the "tee" connection of the gun. Open faucet to fill stack.

Plug nearby drains tightly and cover overflows. Snap trigger and allow to flush.

The purpose of the gate valve is to prevent the water in the stack from escaping if the gun is taken off for re-loading.

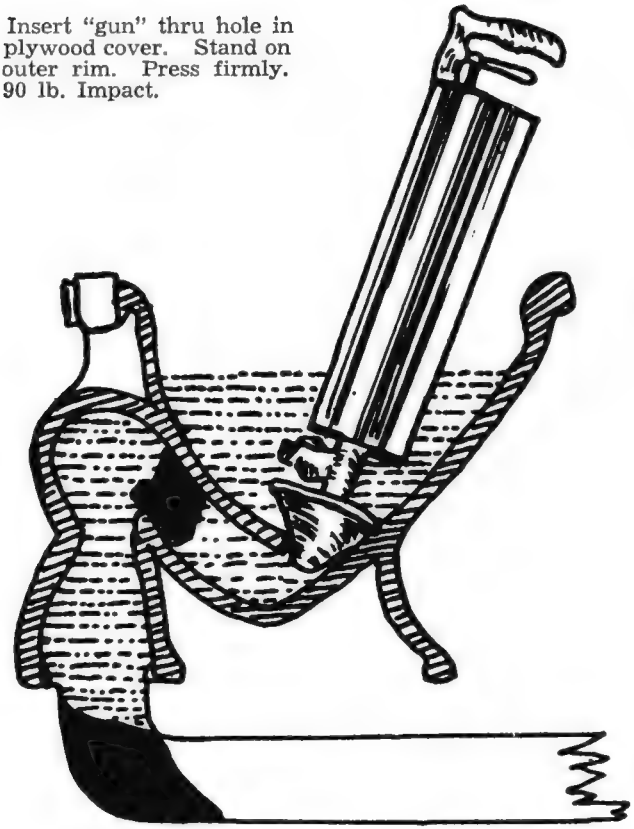
BATHROOM DRAINS



1. For toilet bowl follow instructions on page 10.
2. When both tub and wash bowl do not drain, clean fixture nearest outflow.
3. Plug and fill bath tub—pack overflow tightly.
4. Attach hose to faucet. Press pointed end of cone downward and seal.
5. Open faucet and completely fill drain line.
   With the left hand place a rag over the overflow at an angle to deflect downward any dirt or sediment loosened in the overflow pipe.
6. Press firmly—SNAP trigger—using 70 lb. impact. Allow to flush.
   In cleaning bath tub—plug wash bowl drain—pack overflow, fill and cover. Attach hose and faucet connection in bath tub—pack overflow—completely fill drain line through "tee" connection. Press FIRMLY —SNAP trigger using 70 lb. impact. Allow to flush. In complete stoppage, remove cover of floor trap. Plug both tub and wash bowl drains—pack overflows. Fill both fixtures with water, cover wash bowl. Use hose and tight rag pack at floor drain. Attach hose to faucet for added impact. SNAP trigger using 80 lb. impact. Replace floor trap cover. Remove plug and allow to flush.

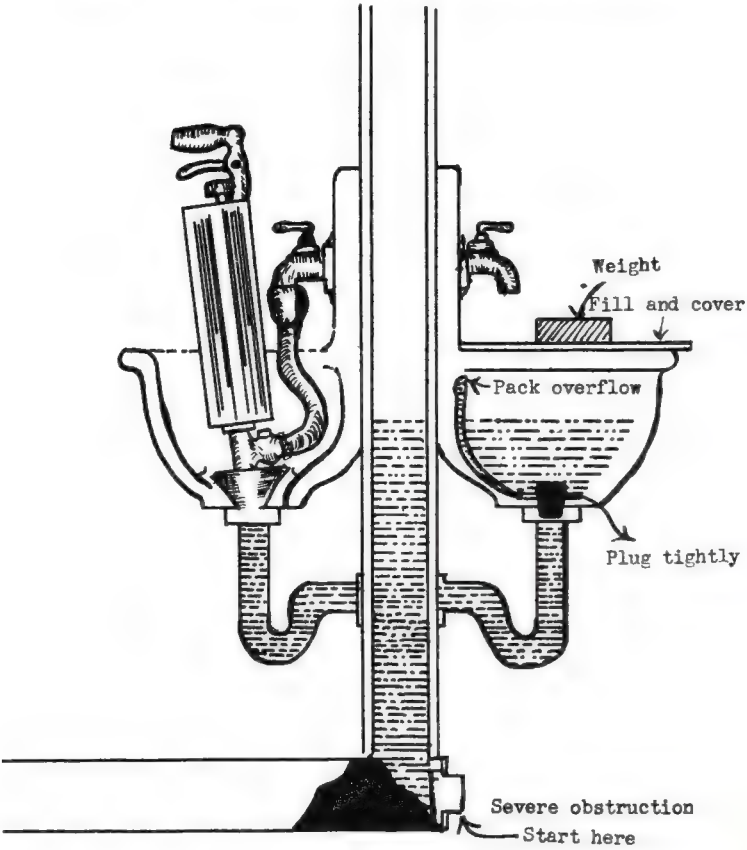
TOILET BOWL

Insert "gun" thru hole in plywood cover. Stand on outer rim. Press firmly. 90 lb. Impact.



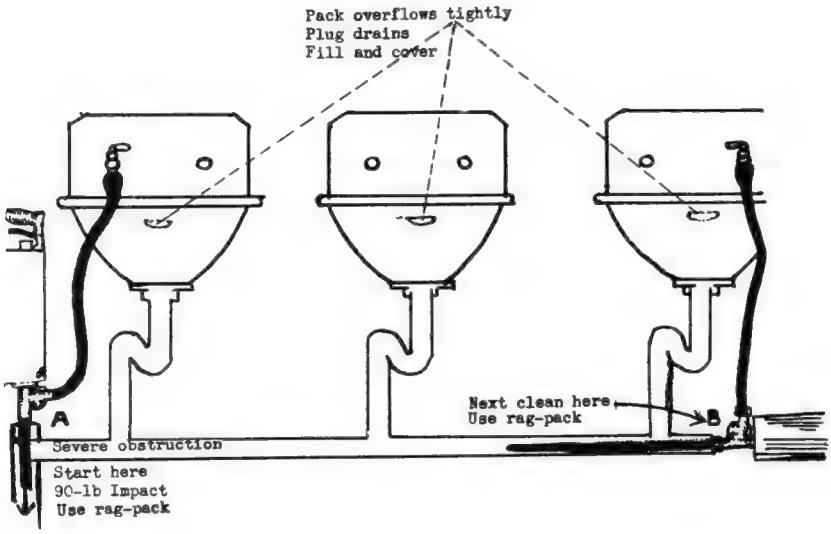
It is needless to remove toilet bowl, even if obstruction is caught crosswise. Combs, toothbrushes, pencils, etc. can be removed by inserting a ball of newspaper through the elbow of the bowl. Seal and cover for back-splash, using 90 lb. impact. Snap trigger when discharging gun).

BACK TO BACK FIXTURES



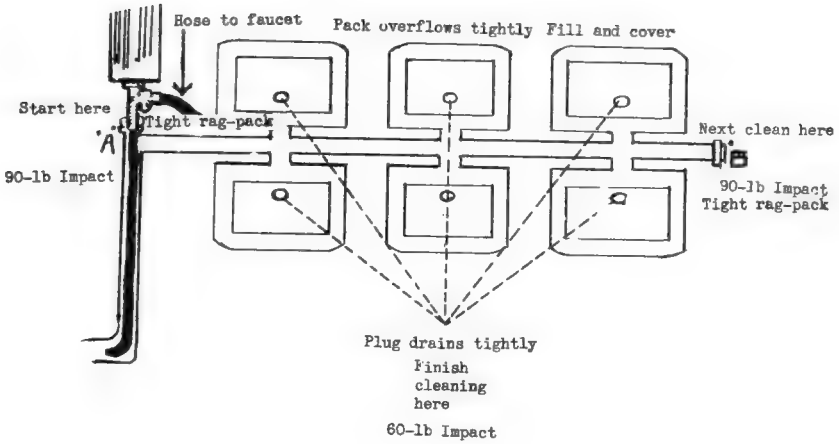
1. Plug tightly drain of wash bowl not being cleaned. Pack rag in overflow—fill and cover.
2. Place gun with pointed end of cone in the drain of bowl being cleaned. Fill line by using hose to faucet connection.
3. Seal overflow with a rag held in the left hand at an angle to deflect downward any dirt or sediment loosened by the shot.
4. Discharge QUICKLY using 60 lb. impact. Allow to flush.
   Use same procedure on opposite fixture if necessary.

BATTERY OF WASH BOWLS



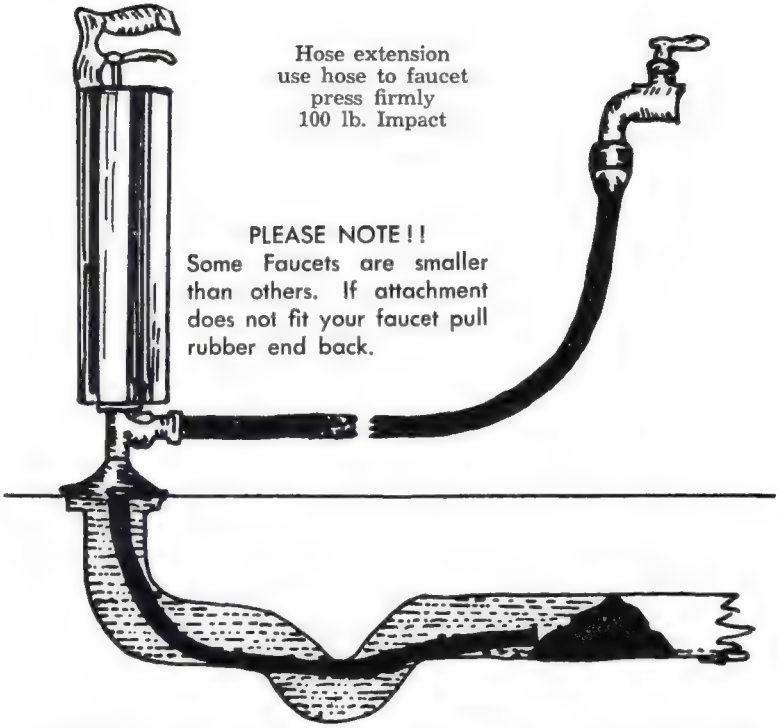
1. If possible clean at outlet closest to the outflow (A) using hose and tight rag pack.
2. Pack drains and overflows in all fixtures. Fill and cover.
3. Crowd line with water through hose and faucet connection. SNAP trigger, using 90 lb. impact. Allow to flush.
4. Next clean horizontal drain (B) if exposed, using same procedure as above with 80 lb. impact.
5. Finish by cleaning each fixture separately, using 60 lb. impact.

CLEANING BATTERY OF BACK-TO-BACK WASH BOWLS, ETC.



1. Pack drains and overflows in all fixtures. Fill and cover.
2. Clean drain opening nearest the outflow using hose and cone combination "A" or "B".
3. Fill line with water through hose and faucet connection. Discharge quickly, using 80 lb. impact. Allow to flush.
4. Next clean horizontal drain if exposed, using same procedure as above.
5. Finish by cleaning each fixture separately, using 60 lb. impact.

FLOOR OR SEWER DRAINS


Hose extension
use hose to faucet
press firmly
100 lb. Impact
PLEASE NOTE!!
Some Faucets are smaller than others. If attachment does not fit your faucet pull rubber end back.

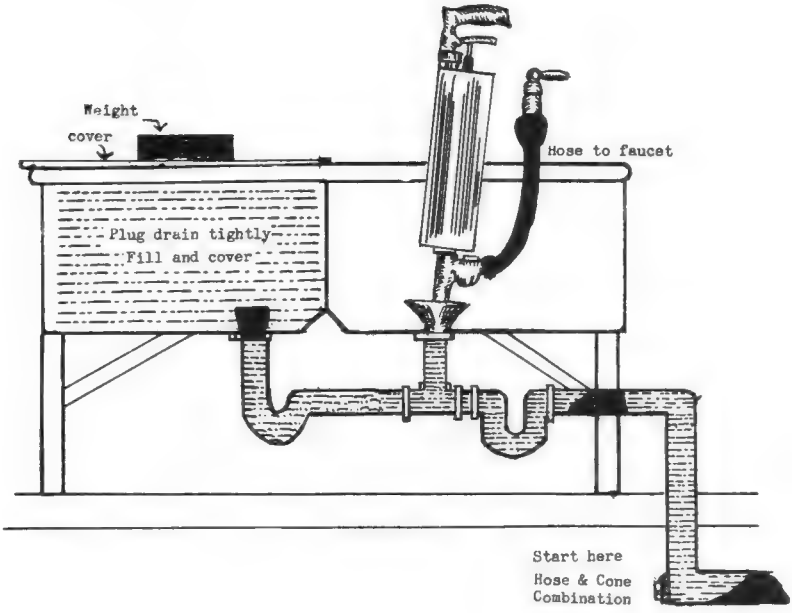
NOTE: When cleaning out Drains not close to water supply you may need a longer hose to faucet connection. Longer lengths available.
Price of 6 foot is $7.95.
Price of 10 foot is $10.95.

Floor or sewer drain. Remove cover of drain. Use hose extension. Insert hose as close to point of obstruction as possible. Fill the sewer line completely through faucet connection. Press firmly and release 100 lb. impact.

Note: Cover nearby drains against splash.

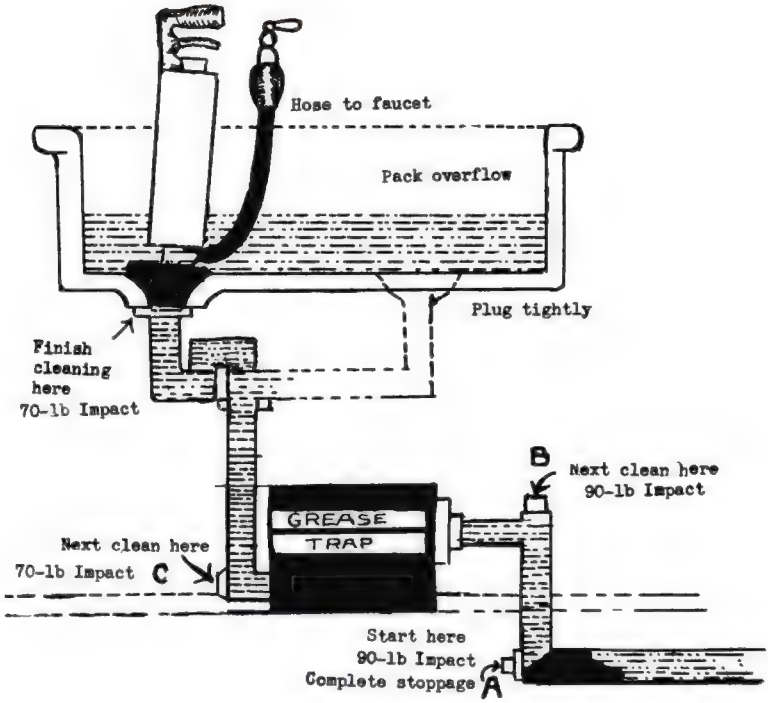
NOTE: It may also work without hose extension. If you find it hard to pump 100 lbs., fill flushing gun with air compressor at service station.

DOUBLE SINKS OR LAUNDRY TUBS



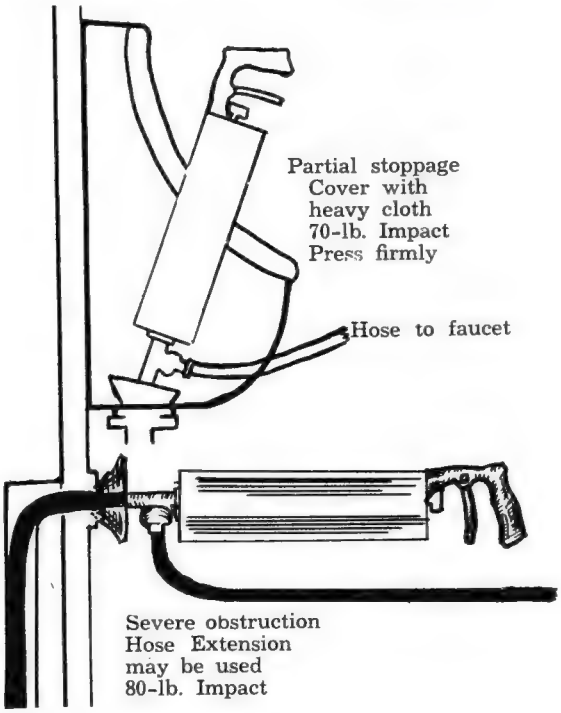
1. Make sure that the drains from the laundry tubs to the sewer are open. See page 15.
2. When drains of laundry tubs or double sinks are partially blocked, pack tightly tub or sink drains not being cleaned. Fill with water and cover. Pack overflow.
3. Place pointed end of cone in drain being cleaned, and attach hose to faucet connection to completely fill the line.
4. Press firmly, SNAP trigger using 80 lb. impact. Allow to flush.
5. Use same procedure on opposite tub or sink.

GREASE TRAPS



In complete stoppage do not attempt to clean a grease trap by applying the "gun" in the sink drain. This will only force the grease from the trap into the outflow pipe and make it harder to open. Always connect the "gun" and hose to faucet to the drain line **beyond** the overflow from the trap. Insert extra hose in the drain line. Pack TIGHTLY. Crowd with water and SNAP trigger using 80 lb. impact. If the horizontal drain line is exposed, it should be cleaned from the clean-out plug with one or more 80 lb. "shots". After the drain lines past the trap are cleaned, it is advisable to clean the line from sink to trap by using the cone inserted in sink drain. Use 70 lb. impact.

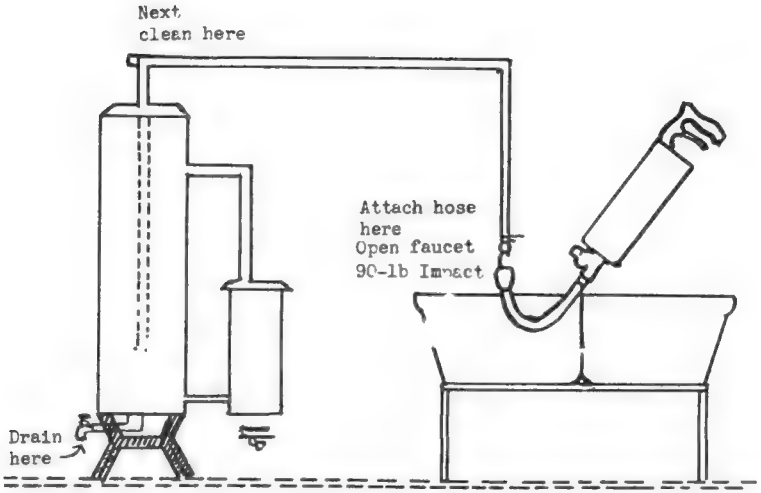
CLEANING URINALS



1. Remove screen if possible*
2. If partially blocked, crowd line with water through faucet connection and "tee" fitting.
3. Press firmly to seal. SNAP trigger, using 80 lb. impact. Allow to flush. EXTREME CAUTION MUST BE USED HERE.
   Solids in urine solidify in the drain pipe. These may be softened by adding Muriatic Acid (Hydrochloric Acid). Allow to remain for 30 minutes in the drain. Where caustics or acids are used to soften solids impregnated in the pipes, care must be taken to wash away or dilute these chemicals, and extreme caution must be taken when discharging the "gun". COVER WITH EXTRA HEAVY CLOTH AFTER DILUTING THE CHEMICALS. Follow by flushing with water.

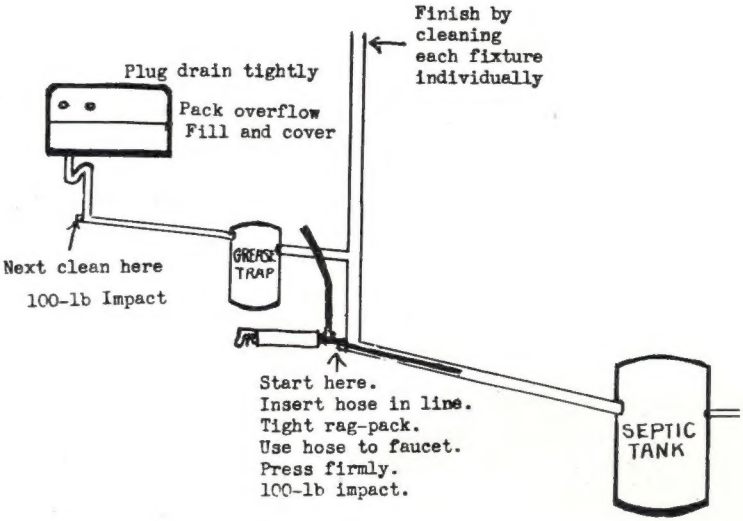
*Note: If screen cannot be removed, use flat end of cone downward.

REMOVING SCALE FROM SLOW RUNNING HOT WATER PIPES



1. Attach rubber hose to hot water faucet, as illustrated.
2. Open faucet SLOWLY, all the way. Allow the hot water to run for a few seconds.
3. Be sure to clamp hose on faucet firmly. Discharge quickly at 90 lb. impact and remove hose.
4. Keep faucet open to allow all scale and rust to flush out.
   It is advisable to open other hot water faucets on the line to lower the city water pressure which may act against the "shot".

CLEANING SEPTIC TANKS

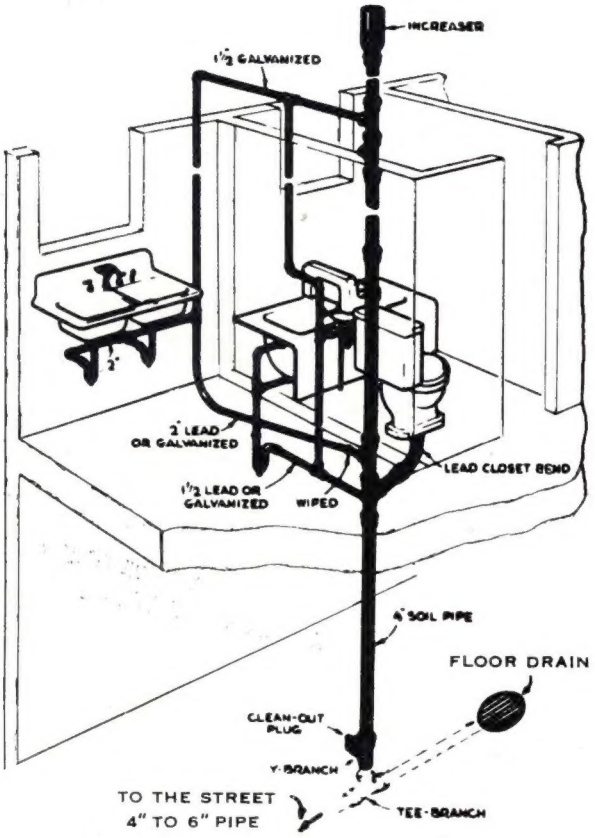


The sewer line from the house to the tank is usually the problem.

1. Look for the cleanout plug nearest the septic tank. Use hose extension directing "shot" toward the septic tank. ward the septic tank.
2. Fill line with water with hose to faucet. SNAP trigger, using 100 lb. impact. Allow to flush.
   Do not use any chemicals as they kill the helpful bacteria in the tank.
3. Repeat same procedure at the next cleanout plug. Finish by cleaning each fixture individually.

NOTE: If you find it hard to pump 100 lbs. with hand pump, fill flushing gun with air compressor at service station.

Diagram of Average Home, Institution or Factory Building



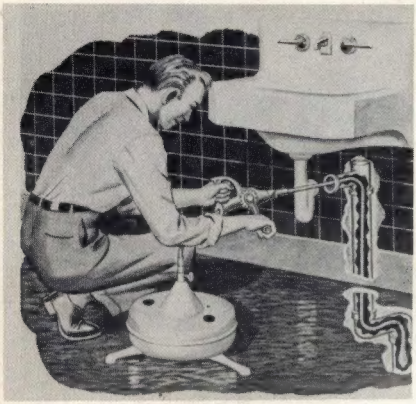
New type plumbing as shown here does not have catch basin. All drains join and lead straight to street. In old type plumbing, floor drains, bathtubs, and sink leads to catch basin first, then to street.

INSTRUCTIONS FOR USING HAND AIR PUMP

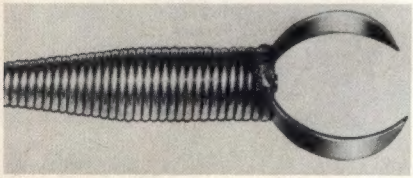
SHORT QUICK STROKES ARE BETTER AND FASTER
IN FILLING CYLINDER WITH AIR.

CLOGGED SEWERS!

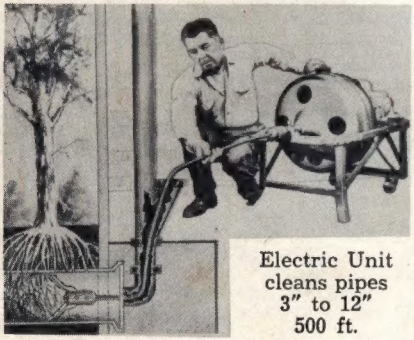
Remember the Costly repair bill



ATTACHABLE CUTTERS



ADVERTISED NATIONALLY



Electric Unit cleans pipes 3″ to 12″ 500 ft.

Chicago, Ill.—Just introduced is a Free Booklet on machines which enable the Home Owner, Janitor or Factory Maintenance Man to Rod-it-himself—

Yet anyone can operate this **new Rodding Tool** which is whirled down the drain in a few seconds. SINKS, BATHTUBS, TOILETS, URINALS, FLOOR DRAINS, HOUSE TO STREET SEWERS can be cleared of Rags, Grease, Paper, Sand while Cutter blades can be added for removing roots. A new discovery in Swedish Music Wire gives the rod 100% more Flexibility.

Another new unit is the Miller Electric Rodder which has patented cutters that expand automatically to the size of the pipe. It will clean out heavy obstructions in pipe diameters 3″ to 12″. Smaller sizes available. But now, what are these Tools worth in **COSTLY REPAIR BILLS SAVED.** Send your name and address for **FREE BOOKLET** on Hand and Electric Units. Obey that urge. No agent will call. A postcard will do (Chicago Phone Kildare 5-1702).

Printed in U.S.A.

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